

FIG. 1

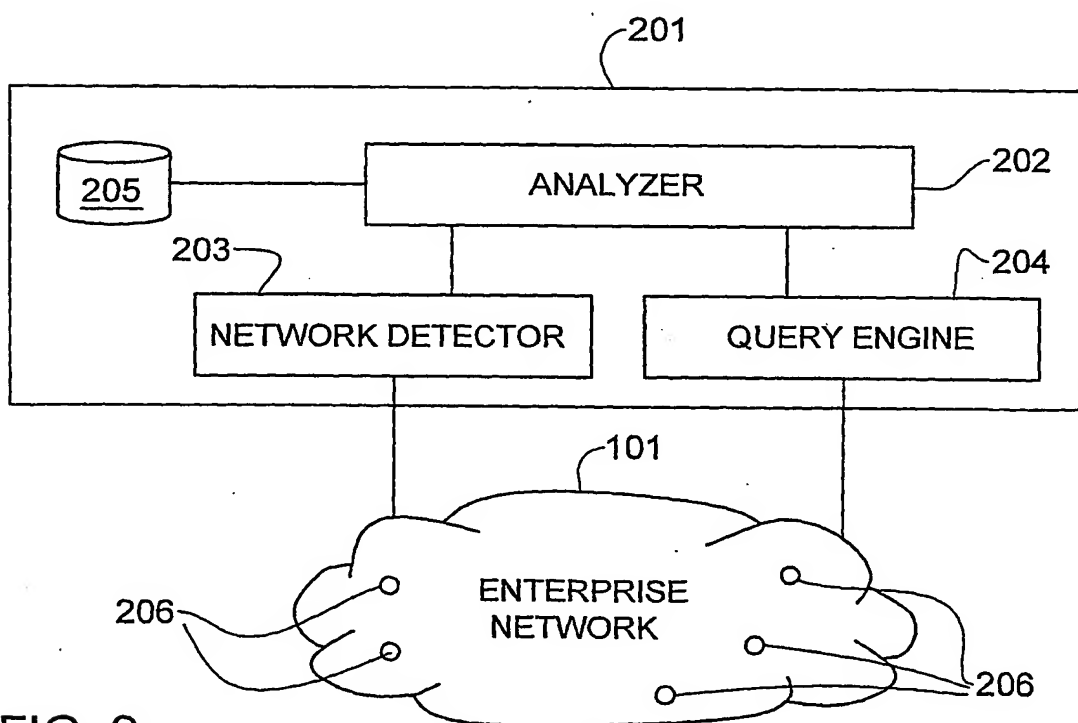


FIG. 2

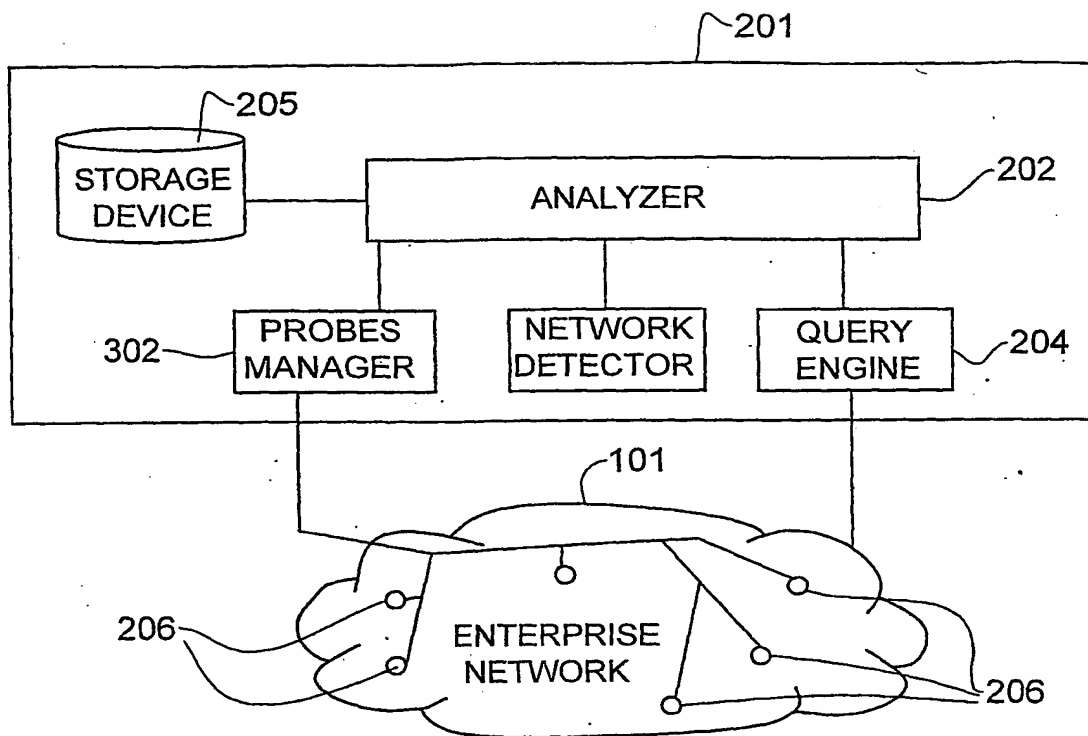


FIG. 3

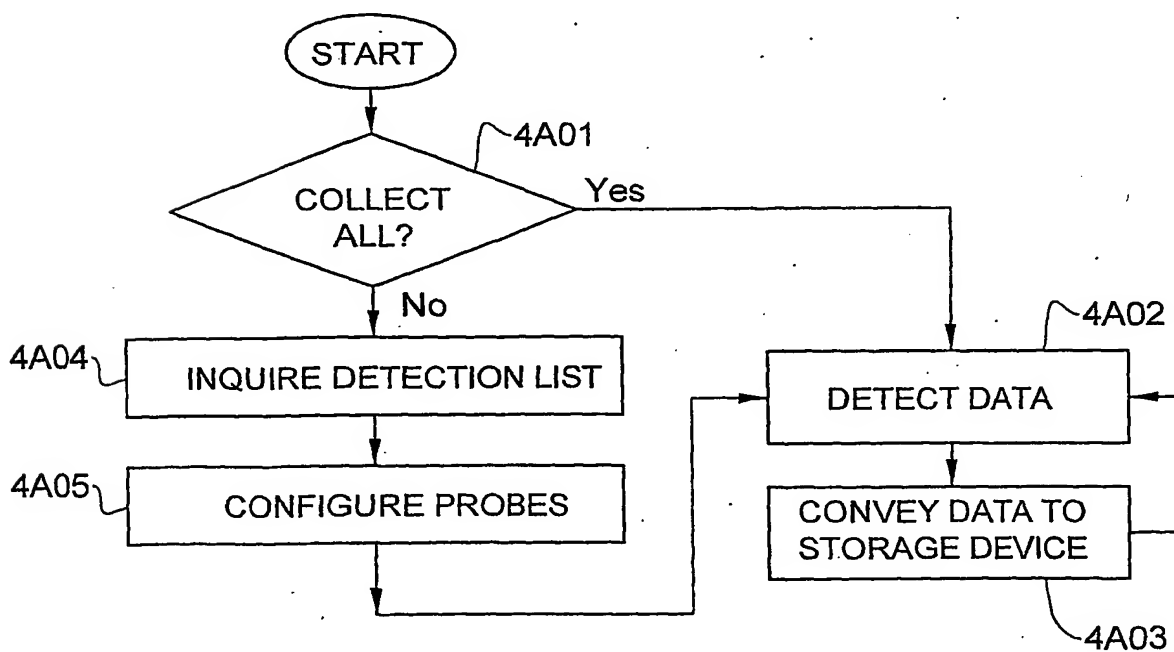


FIG. 4A

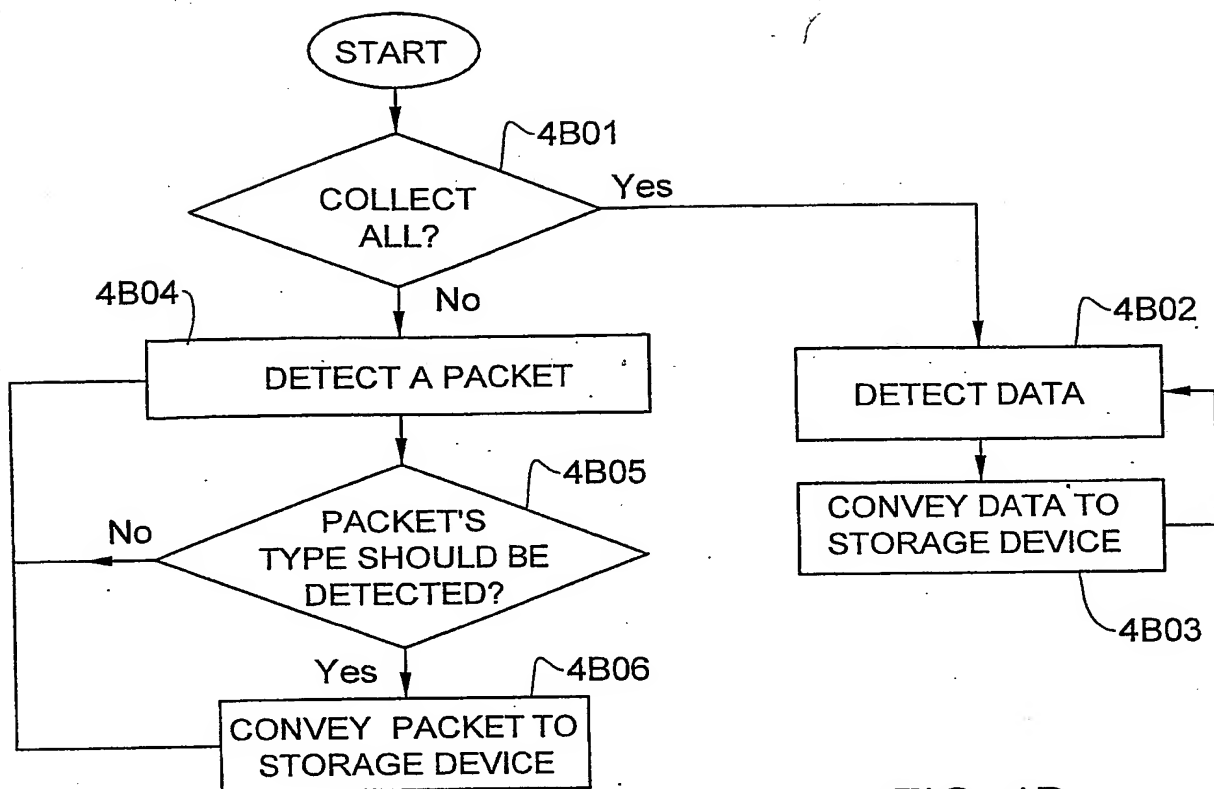


FIG. 4B

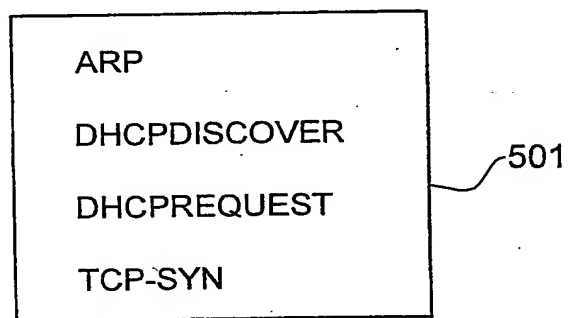


FIG. 5

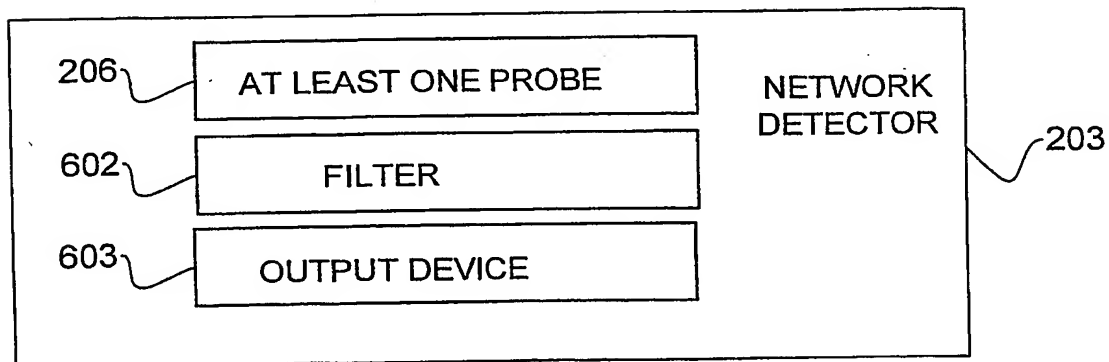


FIG. 6

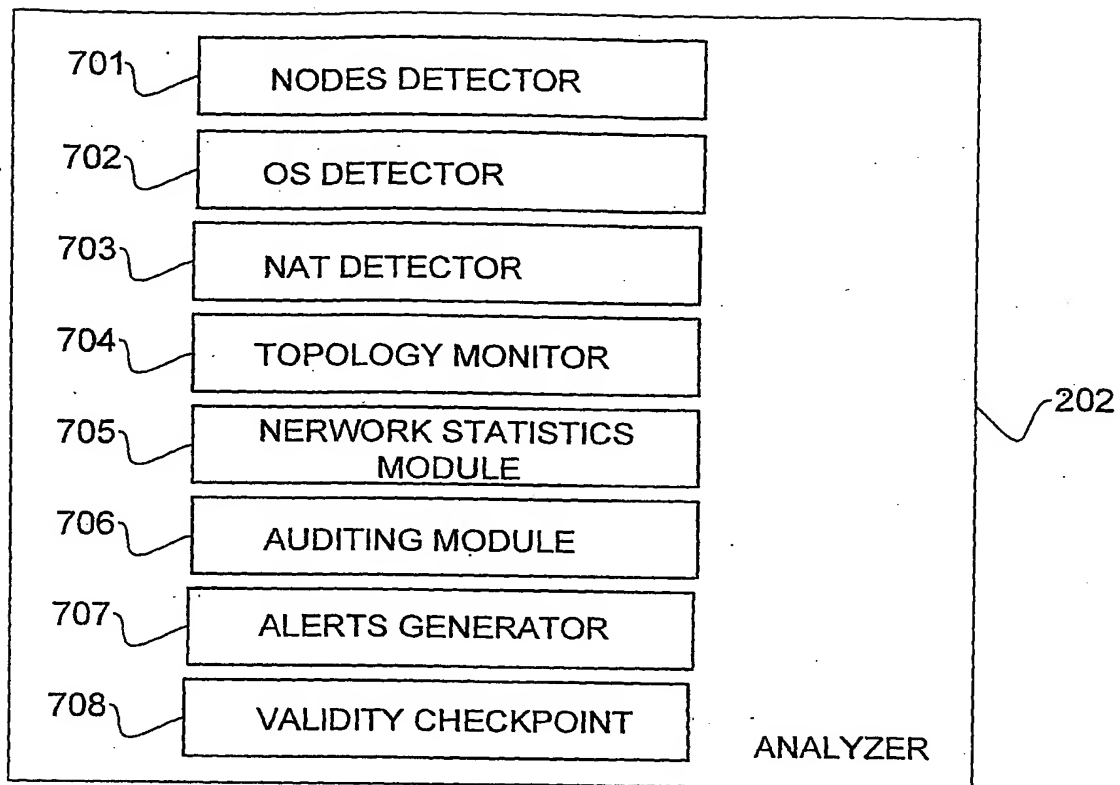


FIG. 7

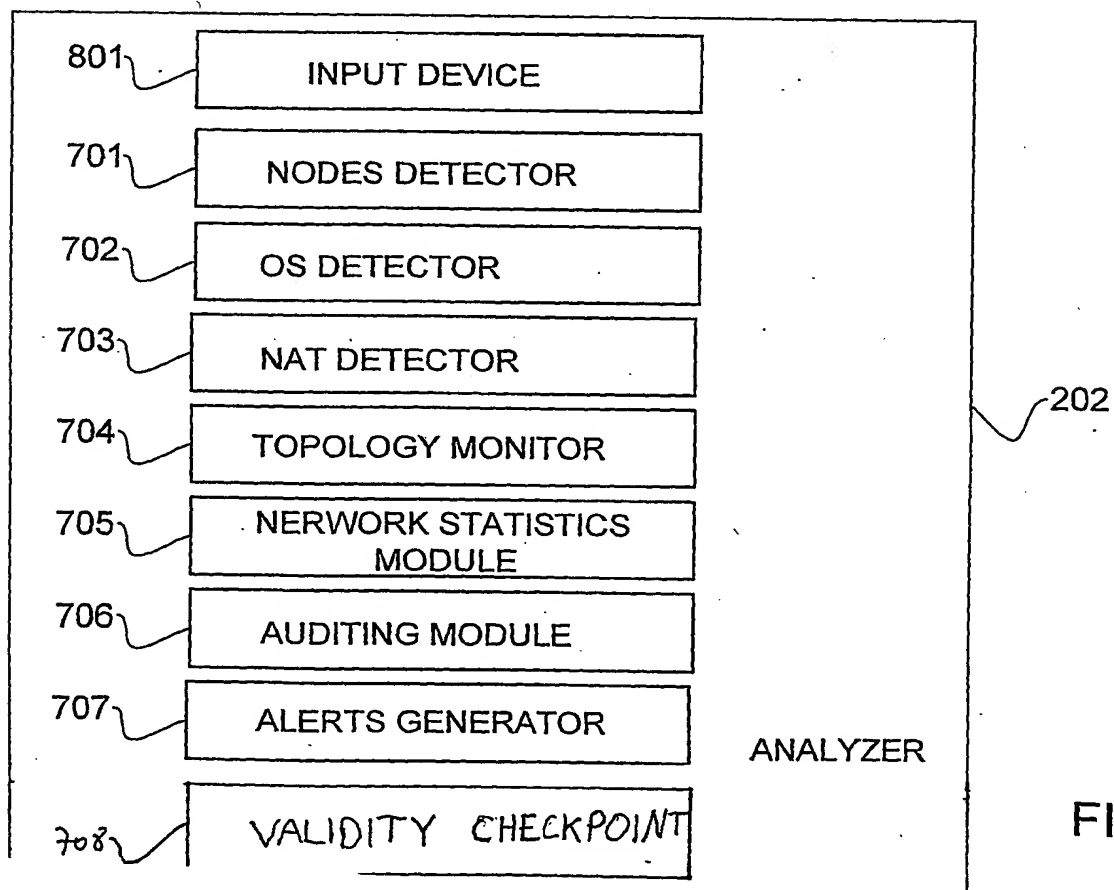


FIG. 8

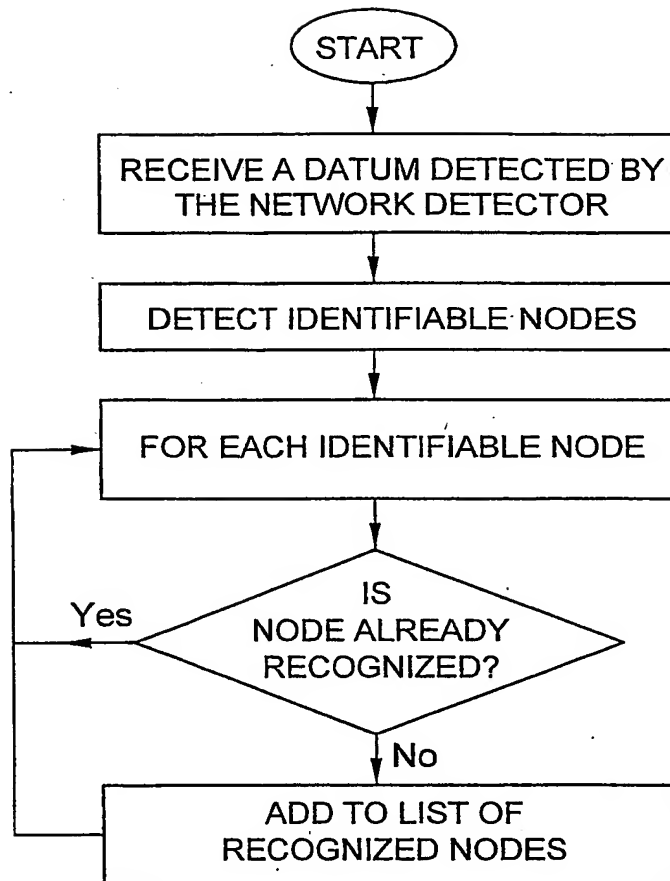


FIG. 9

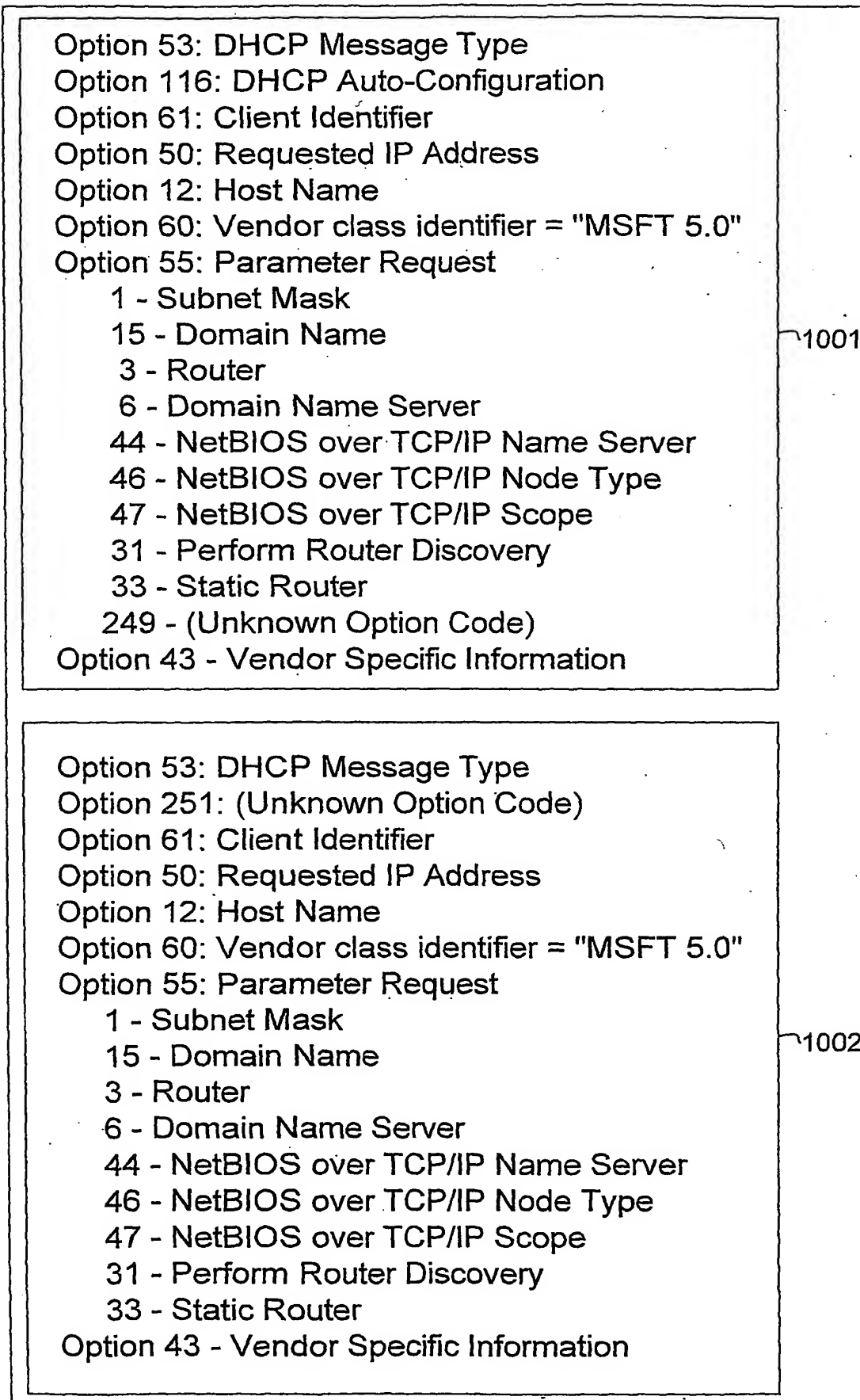


FIG. 10

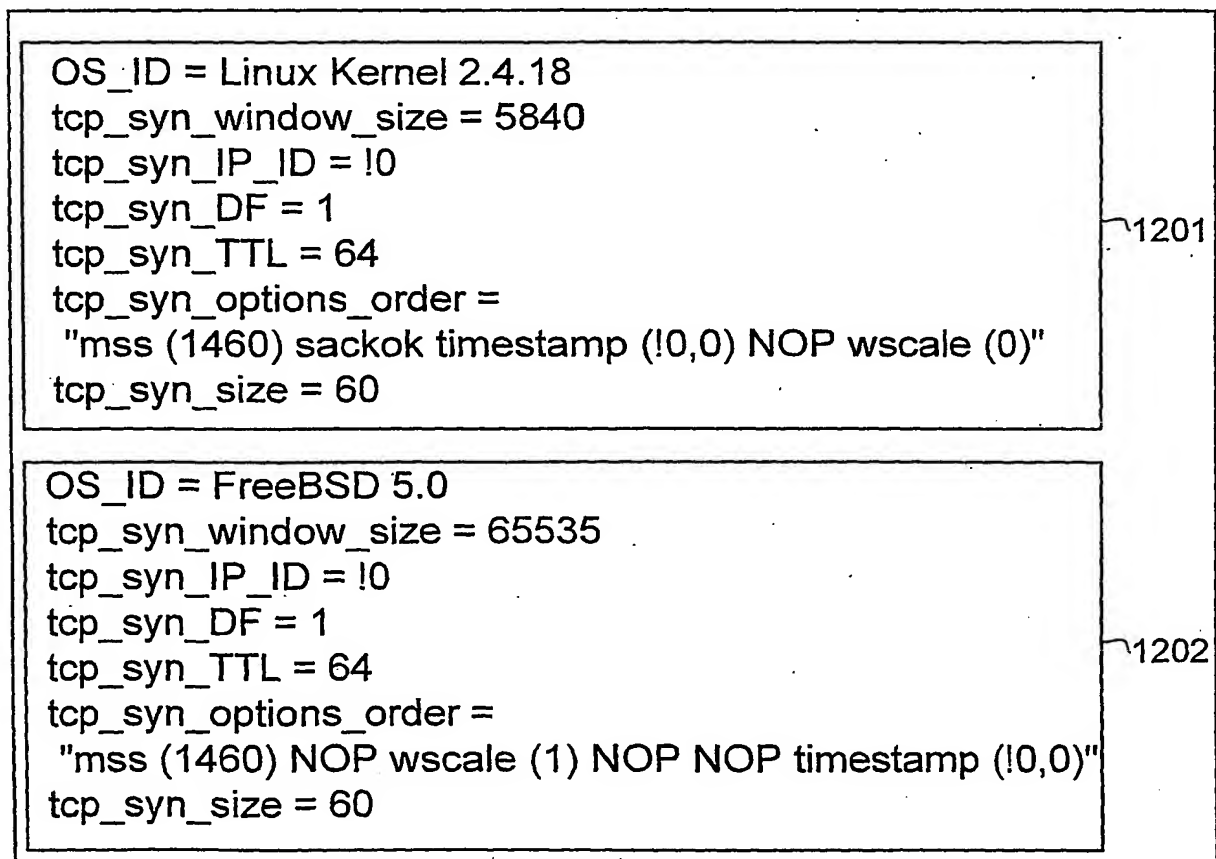
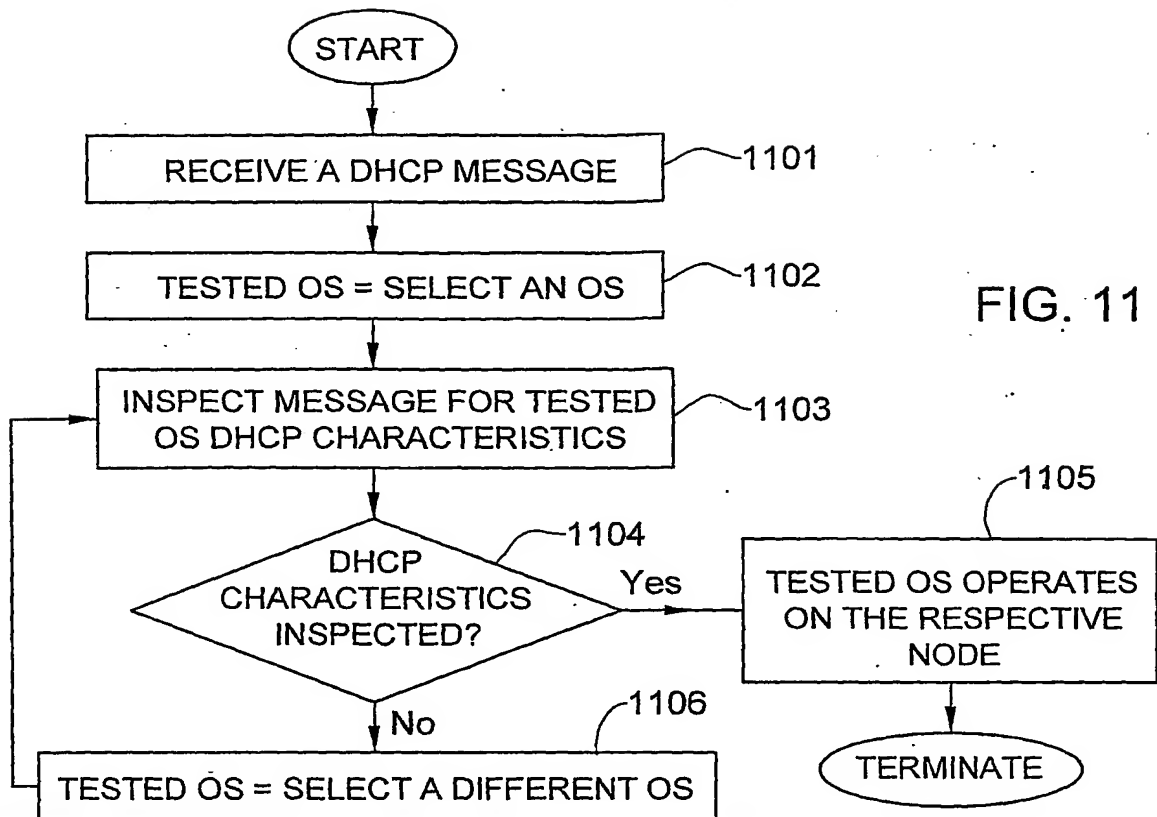


FIG. 12

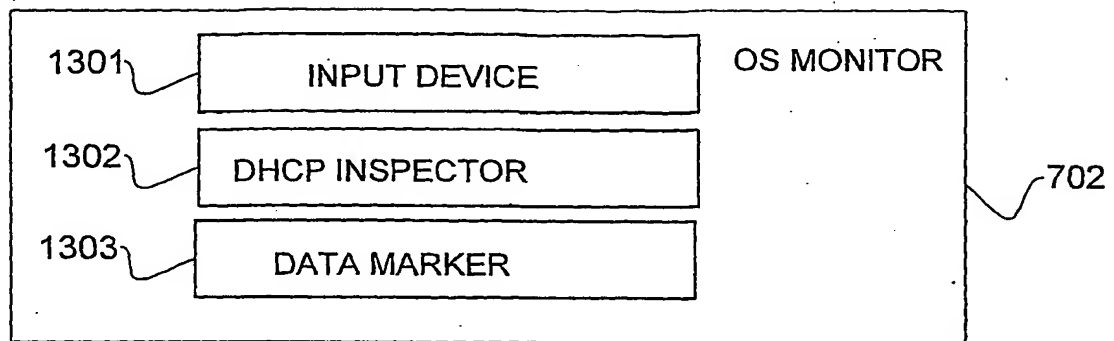


FIG. 13

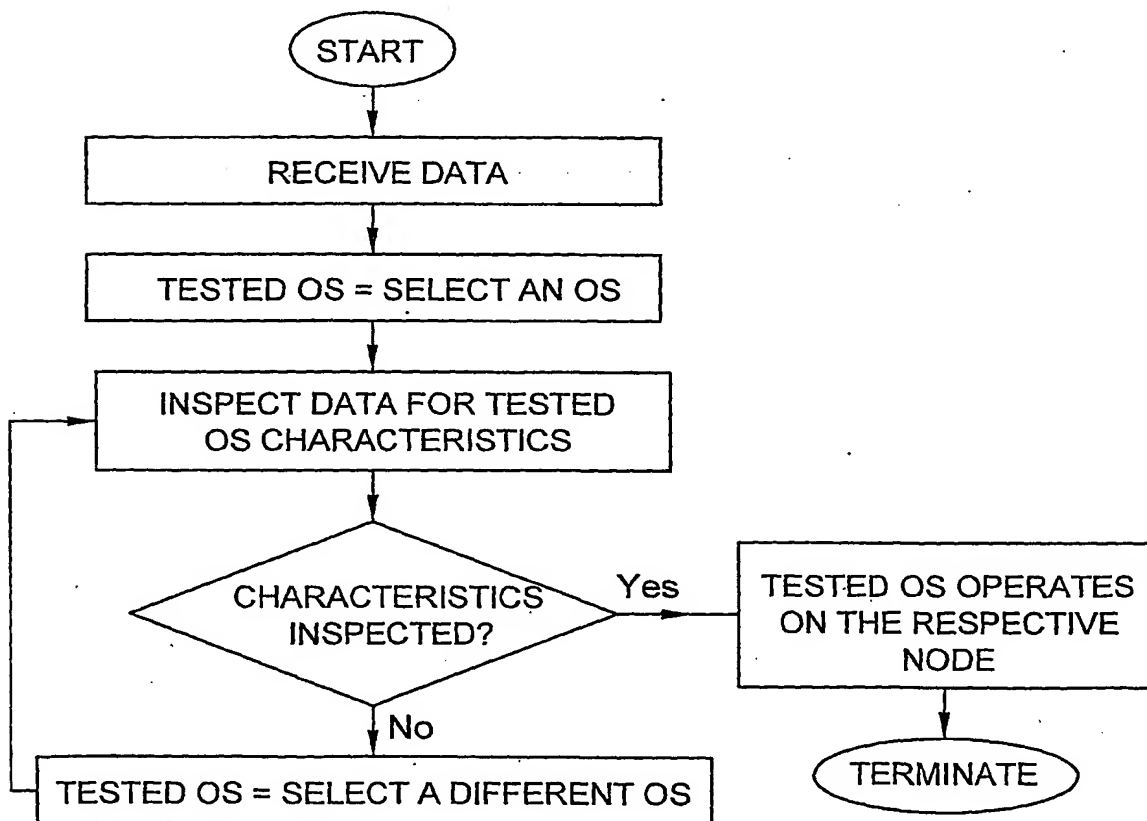


FIG. 14

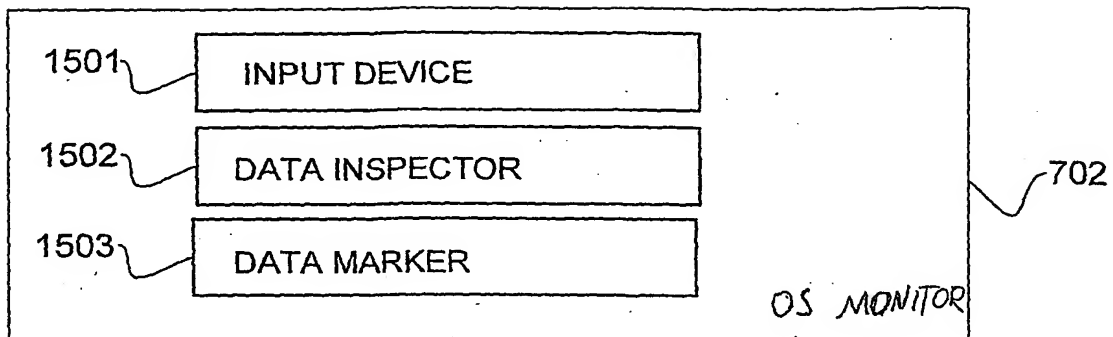


FIG. 15

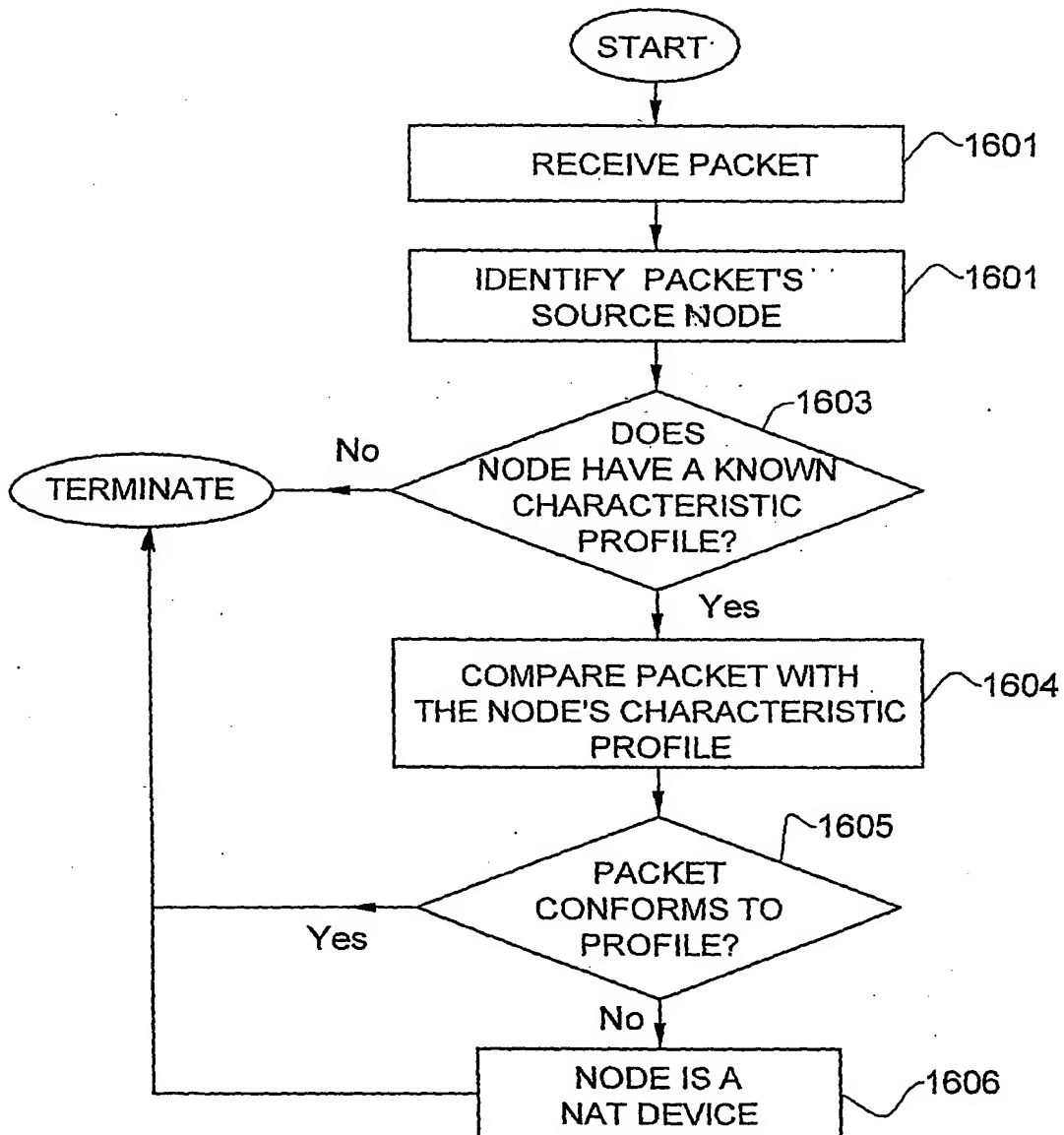


FIG. 16

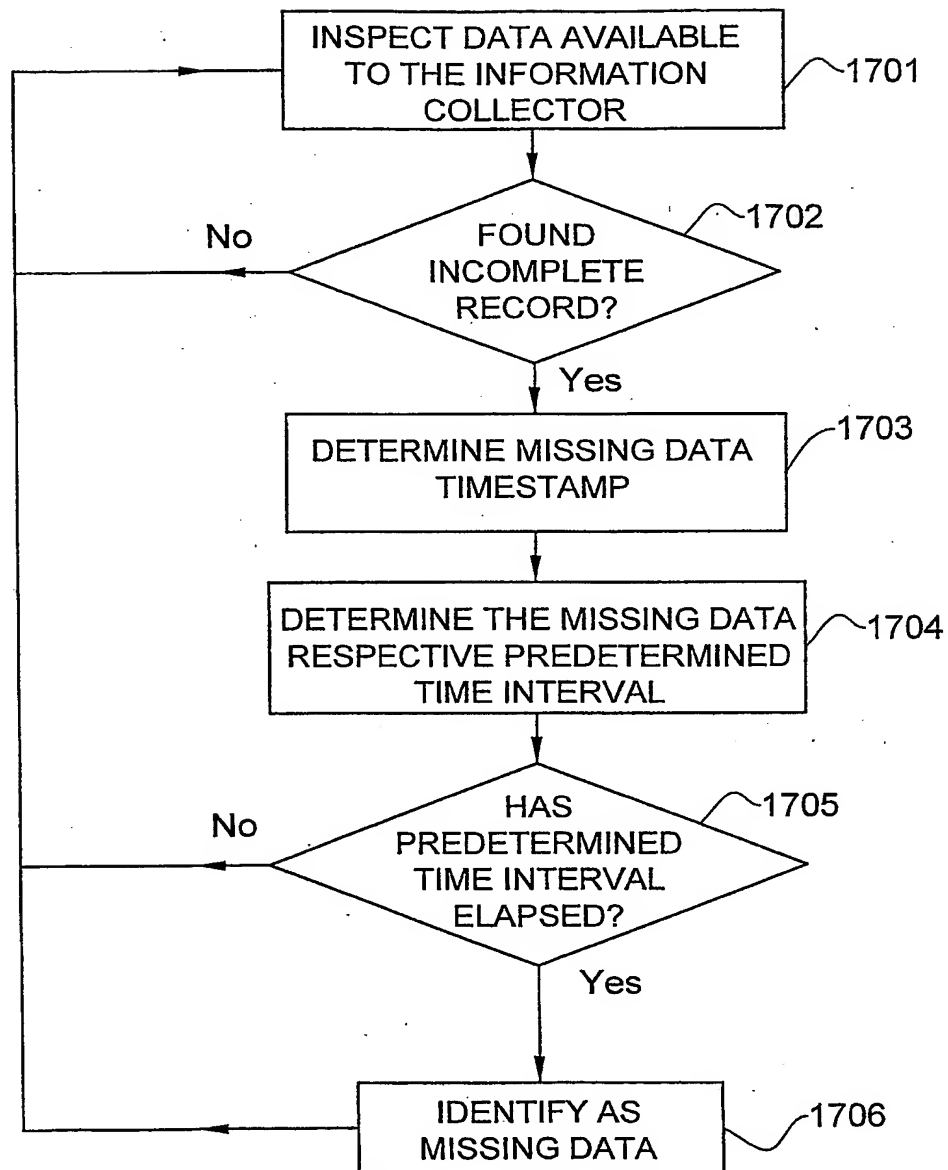


FIG. 17

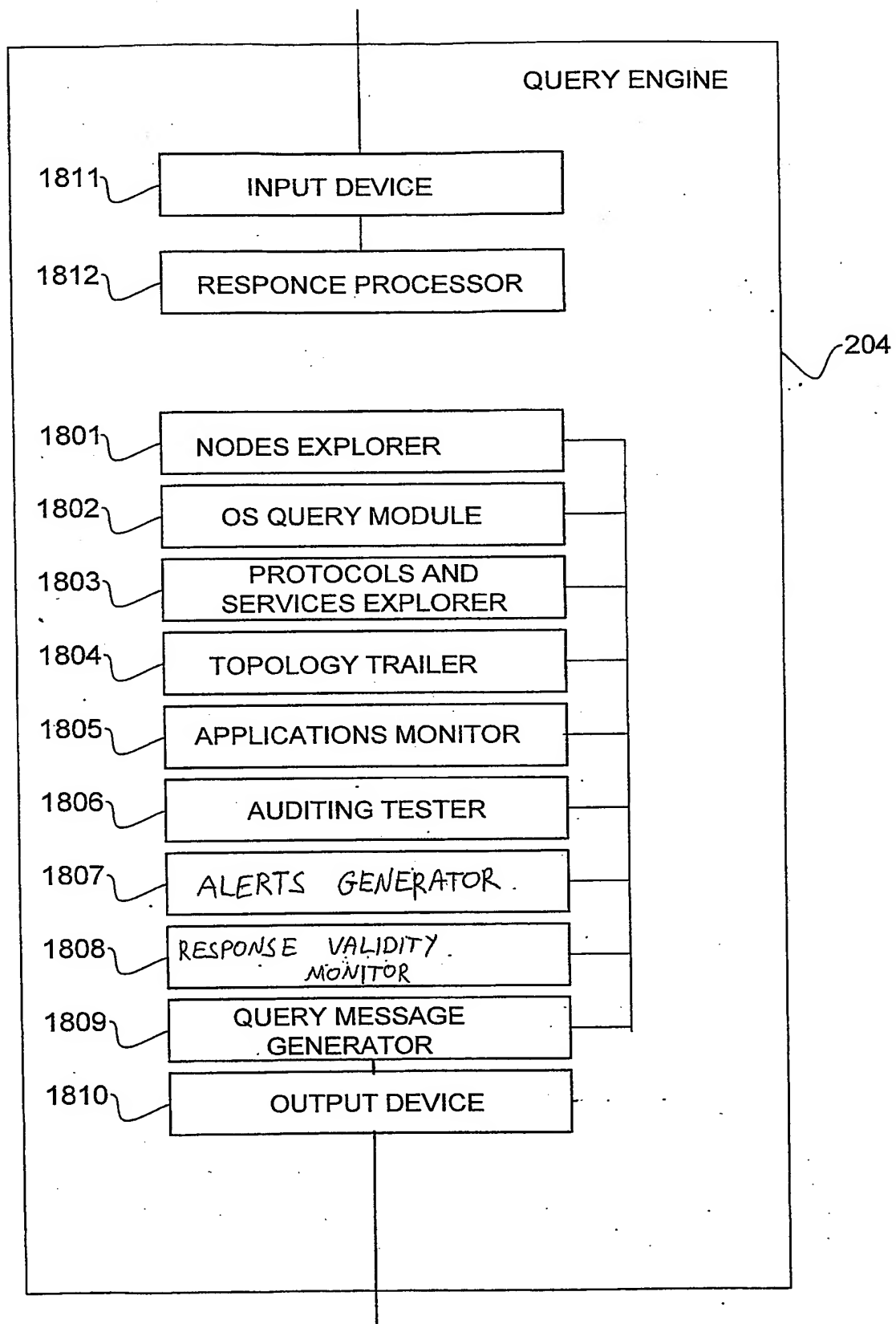


FIG. 18

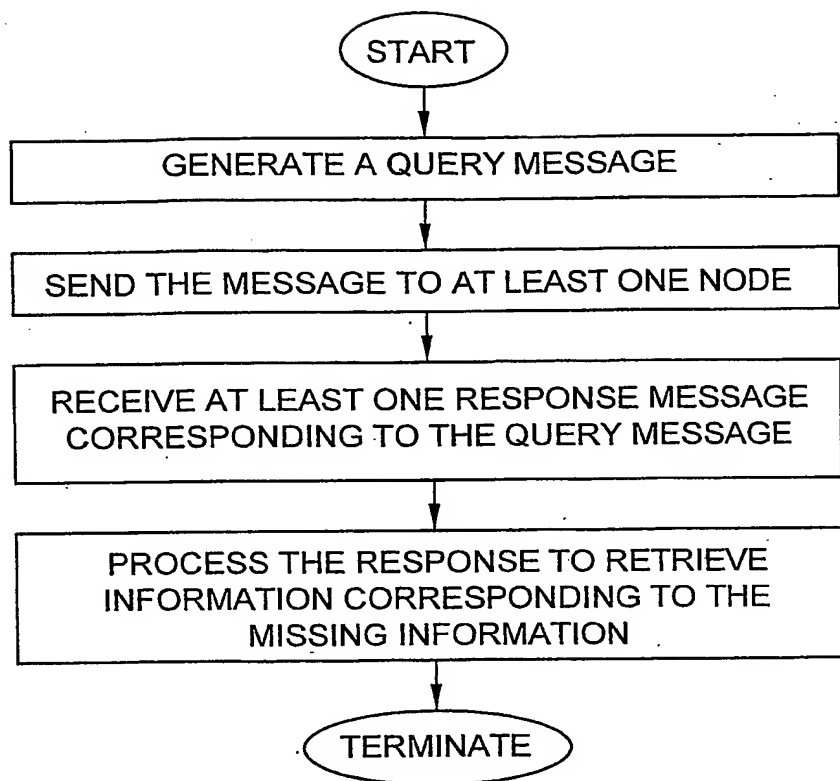


FIG. 19

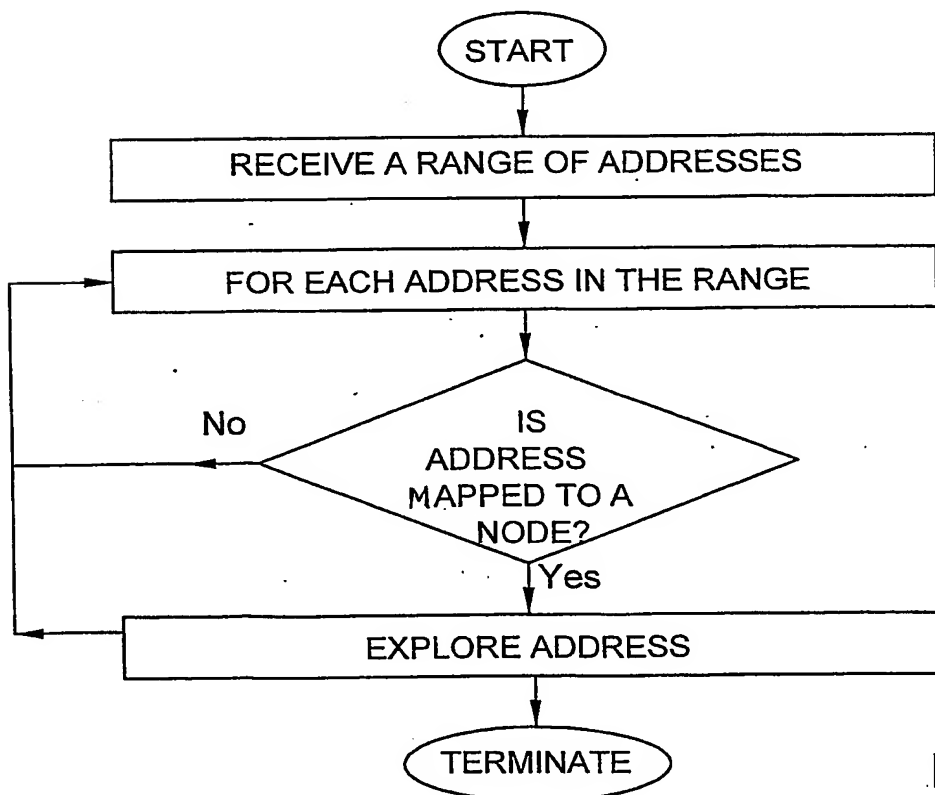


FIG. 20

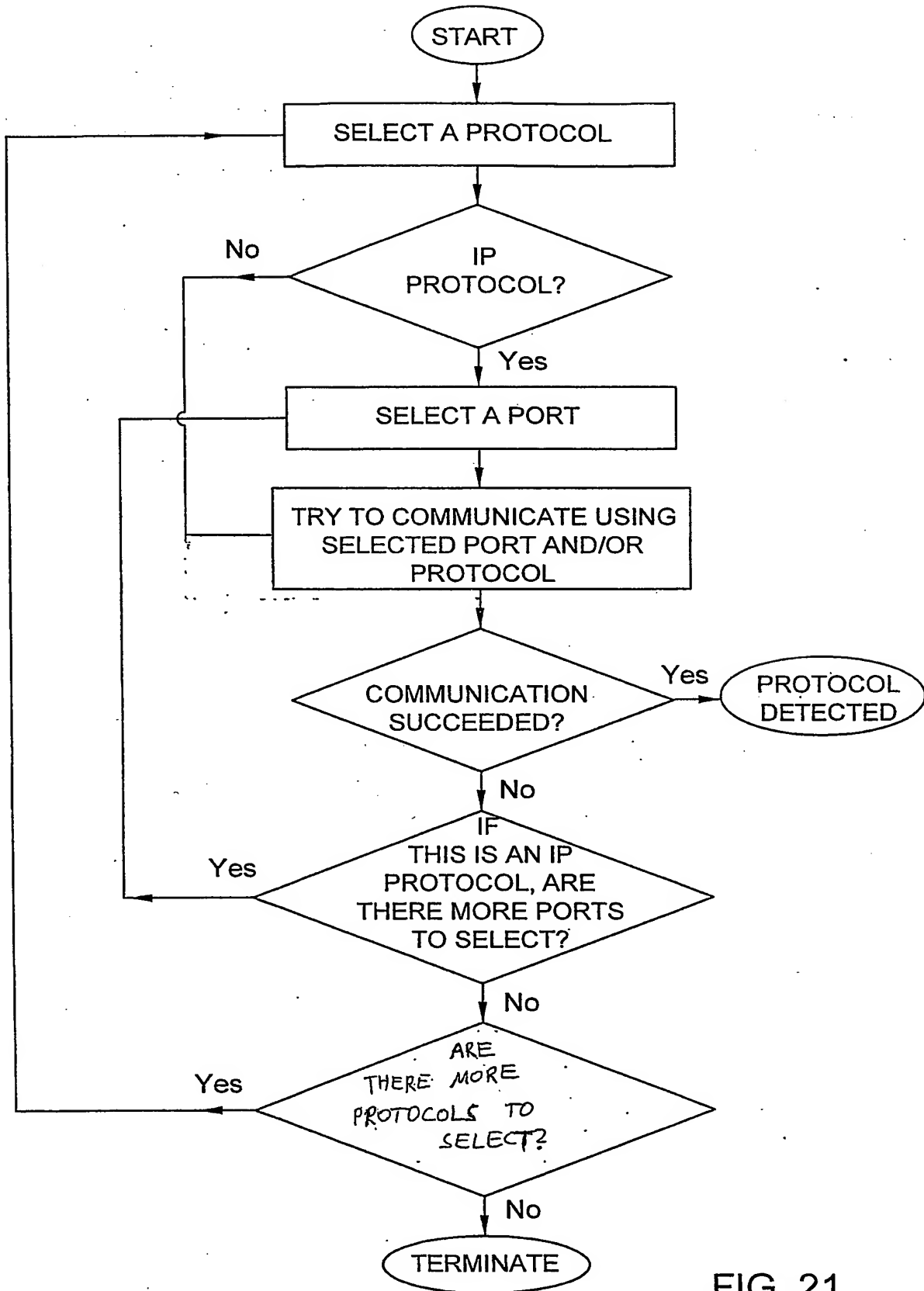


FIG. 21

Fig. 22A

```
fingerprint {  
  
    OS_ID = "Microsoft Windows 2000"  
  
    # Sub-Module A  
    icmp_echo_code = 0  
    icmp_echo_ip_id = !0  
    icmp_echo_tos_bits = 0  
    icmp_echo_df_bit = 1  
    icmp_echo_reply_ttl = < 128  
  
    # Sub-Module B  
    icmp_timestamp_reply = y  
    icmp_timestamp_reply_ttl = <128  
    icmp_timestamp_reply_ip_id = !0  
  
    # Sub-Module C  
    icmp_addrmask_reply = n  
    icmp_addrmask_reply_ttl = <128  
    icmp_addrmask_reply_ip_id = !0  
  
    # Sub-Module D  
    icmp_info_reply = n  
    icmp_info_reply_ttl = <128  
    icmp_info_reply_ip_id = !0
```

Fig. 22A (Cont.)

```
# Sub-Module E
#IP_Header_of_the_UDP_Port_Unreachable_error_message
icmp_unreach_echoed_dtsize = 8
icmp_unreach_reply_ttl = <128
icmp_unreach_precedence_bits = 0
icmp_unreach_df_bit = 0
icmp_unreach_ip_id = !0

#Original_data_echoed_with_the_UDP_Port_Unreachable_error_message
icmp_unreach_echoed_udp_cksum = OK
icmp_unreach_echoed_ip_cksum = OK
icmp_unreach_echoed_ip_id = OK
icmp_unreach_echoed_total_len = OK
icmp_unreach_echoed_3bit_flags = OK

# Sub-Module F [TCP SYN | ACK Module]
#IP header of the TCP SYN | ACK
tcp_syn_ack_tos = 0
tcp_syn_ack_df = 1
tcp_syn_ack_ip_id = !0
tcp_syn_ack_ttl = <128

#Information from the TCP header
tcp_syn_ack_ack = 1
tcp_syn_ack_window_size = 17520
tcp_syn_ack_options_order = "MSS NOP WSCALE NOP
NOP TIMESTAMP NOP NOP SACK"
tcp_syn_ack_wscale = 0
tcp_syn_ack_tsval = 0
tcp_syn_ack_tsecr = 0
}
```

Fig. 22B

```
fingerprint {  
  
    OS_ID = "Microsoft Windows 2003 Server "  
  
    # Sub-Module A  
    icmp_echo_code = 0  
    icmp_echo_ip_id = !0  
    icmp_echo_tos_bits = 0  
    icmp_echo_df_bit = 1  
    icmp_echo_reply_ttl = < 128  
  
    # Sub-Module B  
    icmp_timestamp_reply = y  
    icmp_timestamp_reply_ttl = <128  
    icmp_timestamp_reply_ip_id = !0  
  
    # Sub-Module C  
    icmp_addrmask_reply = n  
    icmp_addrmask_reply_ttl = <128  
    icmp_addrmask_reply_ip_id = !0  
  
    # Sub-Module D  
    icmp_info_reply = n  
    icmp_info_reply_ttl = <128  
    icmp_info_reply_ip_id = !0
```

Fig. 22B (Cont.)

```

# Sub-Module E
#IP_Header_of_the_UDP_Port_Unreachable_error_message
icmp_unreach_echoed_dtsize = >64
icmp_unreach_reply_ttl = <128
icmp_unreach_precedence_bits = 0
icmp_unreach_df_bit = 0
icmp_unreach_ip_id = !0

#Original_data_echoed_with_the_UDP_Port_Unreachable_error_message
icmp_unreach_echoed_udp_cksum = OK
icmp_unreach_echoed_ip_cksum = OK
icmp_unreach_echoed_ip_id = OK
icmp_unreach_echoed_total_len = OK
icmp_unreach_echoed_3bit_flags = OK

# Sub-Module F [TCP SYN | ACK Module]
#IP header of the TCP SYN | ACK
tcp_syn_ack_tos = 0
tcp_syn_ack_df = 1
tcp_syn_ack_ip_id = !0
tcp_syn_ack_ttl = <128

#Information from the TCP header
tcp_syn_ack_ack = 1
tcp_syn_ack_window_size = 17520
tcp_syn_ack_options_order = "MSS NOP WSCALE NOP
NOP TIMESTAMP NOP NOP SACK"
tcp_syn_ack_wscale = 0
tcp_syn_ack_tsval = 0
tcp_syn_ack_tsecr = 0
}

```